



- NOTES
- THIS DRAWING IS NOT TO BE SCALED.
 - THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.
 - DRAWING TO BE READ IN CONJUNCTION WITH ALL CIVIL, STRUCTURAL, AND ARCHITECTURAL LAYOUT DRAWINGS.
 - DRAWING TO BE READ IN CONJUNCTION WITH ALL LME LAYOUTS AND SPECIFICATION. IF DISCREPANCIES EXIST, ENGINEER TO BE CONSULTED PRIOR TO WORKS PROCEEDING.
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 - ALL DRAINAGE WORKS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE SEWERAGE SECTOR GUIDANCE APPENDIX C - DESIGN AND CONSTRUCTION GUIDANCE.
 - ALL EXTERNAL Foul WATER (PVC) HOPE PIPES SHALL COMPLY WITH EN 1401 AND SHALL HAVE A MINIMUM STIFFNESS CLASSIFICATION OF B40Pf AND CAPABLE OF DEMONSTRATING A JETTING RESISTANCE OF 200 PSI. CONCRETE PIPES ARE NOT PERMITTED.
 - ALL CONNECTIONS TO INTERNAL POP-UPS SHALL BE WELDED HOPE PIPEWORK WITH 90° SLOW RADIUS BENDS SADDLED IN MAIN Foul WATER NETWORK.
 - ALL POP-UPS / UPSTAIRS TO BE PROVIDED WITH ROODING ACCESS ABOVE FLOOR FLOOR LEVEL.
 - LOCATION OF POP-UP TO BE CONFIRMED BY ARCHITECT AND MEP.
 - ALL INTERNAL FLOOR GULLIES TO BE TRAPPED.
 - ALL PIPES SHALL BE BEDDED ON TYPE 5 BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICED AREAS, OR 0.6m IN NON TRAFFICED AREAS, OR 0.3m UNDER BUILDING SLAB, THEN TYPE 2 BEDDING.
 - THE CONTRACTOR IS TO PROTECT EXISTING BURIED PIPES (PARTICULARLY SHALLOW PIPES) AND TREE ROOTS FROM DAMAGE CAUSED BY LOADS IMPOSED BY CONSTRUCTION.
 - BACKFILL TO TRENCHES MAY BE SUITABLE EXCAVATED MATERIAL IN LANDSCAPED AREAS.
 - TYPE 1 GRANULAR MATERIAL TO BE USED UNDER HANDSTANDINGS AND ROADS.
 - ROAD GULLY CONNECTIONS SHALL BE 150mm DIAMETER AND WITH CLASS 2 BEDDING.
 - ROAD GULLIES SHALL BE TRAPPED 450mm DIAMETER x 150mm MIN DEPTH WITH CLASS D40 FRAME AND GRATING TO BS EN 124.
 - ALL Foul PIPES FROM POP-UPS TO THE FIRST INSPECTION CHAMBER OR MANHOLE ARE TO BE 800 UNLESS STATED OTHERWISE OR TO SUIT ABOVE GROUND PIPE WORK.
 - PIPE GRADIENTS, UNLESS OTHERWISE SHOWN ARE:
 - MINIMUM GRADIENT WITHOUT W.C. TO BE 1:40.
 - MINIMUM GRADIENT WITH W.C. TO BE 1:80.
 - ALL MANHOLE AND DRAINAGE CHANNEL COVERS SHALL COMPLY WITH BS EN 124 FOR DETAILS OF COVER TYPE & LOCATION, PLEASE REFER TO STANDARD DETAILS. MANHOLE COVERS WITHIN BLOCK PAVED AREAS & BUILDINGS SHALL BE RECESSED, DOUBLE SEALED WITHIN BUILDING.
 - INSTALLATIONS TO BE STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 - COVER LEVELS SHOWN ARE APPROXIMATE. COVER LEVELS FOR MANHOLES WITHIN LANDSCAPED AREAS SHOULD BE CHECKED AND CONFIRMED BACK TO THE ENGINEER. COVERS SHOULD BE ADJUSTED TO MATCH SURROUNDING FINISH LEVELS.
 - RAINWATER COLLECTED FROM THE FUEL LOADING AREAS WILL BE GRANTED TO THE Foul DRAINAGE NETWORK VIA A CLASS 1 FULL RETENTION FUEL AND OIL SEPARATOR. ADDITIONALLY THE FUEL AND OIL SEPARATOR IS MONITORED ON THE FACILITY BMS AND ALARM TO BE FITTED IF HYDROCARBONS ARE DETECTED. MINIMUM TANK SIZE 10,000 LITRE.
 - FORECOURT SEPARATORS ARE FULL RETENTION SEPARATORS SPECIFIED TO RETAIN ON-SITE THE MAXIMUM SPILLAGE LIKELY TO OCCUR DURING FUEL DELIVERY. THE CAPACITY OF THE SEPARATOR IS 10,000 LITRES IN ORDER TO RETAIN THE POSSIBLE LOSS OF THE CONTENTS OF ONE COMPARTMENT OF A ROAD TANKER, WHICH MAY BE UP TO 7,000 LITRES. THIS SEPARATOR IS ALSO MONITORED ON THE BMS AND WILL ALARM IF HYDROCARBONS DETECTED.
 - VENTILATION STACKS TO BE PROVIDED FOR ALL PETROL INTERCEPTORS MINIMUM HEIGHT 3m ABOVE GROUND LEVEL WHERE VENTILATION STACKS CANNOT BE FIXED TO BUILDING OR FENCES - FREE STANDING STACK.
 - AGD CHANNELS IN PAVED/TRAFFICED AREAS TO HAVE HELPSAFE GRATINGS.
 - GROUNDWATER CONTAMINATED WITH PFAS - DEWATERING AND COPPERFAM TO MINIMISE VOLUME OF WATER REQUIRED FOR ANY WORKS WITHIN GROUNDWATER TABLE ANTICIPATED TO BE NEAR TO SURFACE - TO BE DESIGNED BY CONTRACTOR.
 - UTILITIES TO BE WRAPPED IN GEOTEXTILE TO PREVENT LOSS OF FINES DUE TO HIGH GROUNDWATER.

- LEGEND
- SITE BOUNDARY
 - PROPOSED Foul WATER SEWER
 - PROPOSED INDUSTRIAL WATER SEWER
 - PROPOSED URBANISATION WORKS
 - PROPOSED DRAINAGE CHANNEL
 - IED PERMIT INSTALLATION BOUNDARY

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MECHANICAL ENGINEER: ELECTRICAL ENGINEER:

CIVIL ENGINEER: STRUCTURAL ENGINEER:
 CIVIL FIRM AECOM STRUCTURE FIRM AECOM
 ENGINEER OF RECORD: AECOM ENGINEER OF RECORD: AECOM
 COLLEGE ROAD, COLLEGE CREEK WATERFRONT PLACE, SOUTH GATE, TYDER
 QUEENSWAY, BRIMINGHAM B4 6AT, UNITED WATERFRONT, CARLisle DRIVE,
 KINGDOM BELLVILLE, 7530 CAPE TOWN, SOUTH AFRICA

PROJECT: Foul WATER DRAINAGE - OVERALL PLAN

TITLE: Foul WATER DRAINAGE - OVERALL PLAN

SHEET NO: C-12000

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